

## PRODUCT DATA SHEET

# Sika® Fibermesh®-150

### Micro-Synthetic Monofilament Fiber

#### DESCRIPTION

Sika® Fibermesh®-150, micro-reinforcement system for concrete—100 percent virgin homopolymer polypropylene multifilament (monofilament) fibers containing no reprocessed olefin materials.

#### USES

Sika® Fibermesh®-150 act mechanically by supporting the aggregate within the concrete with multidimensional fiber network and developing a uniform bleed system. The fiber does not affect the curing process chemically and does not absorb water. The Sika® Fibermesh®-150 can be used in all types of concrete applications to control plastic shrinkage and settlement cracking. Typical applications include:

- Slabs on ground
- Residential applications: side-walks, driveways, decks, curbs
- Precast elements,
- Overlays / toppings
- Stucco
- Shotcrete
- Roads / Pavements
- Bridge Decks

#### CHARACTERISTICS / ADVANTAGES

- Reduces plastic shrinkage cracking
- Reduces plastic settlement cracking
- Improves impact, shatter and abrasion resistance
- Enhances durability
- Promotes uniform bleed and reduces bleed water
- Inhibits and controls the formation of intrinsic cracking in concrete
- Increases cohesion and reduces segregation
- Reinforces against abrasion
- Reduces freeze/thaw damage

#### PRODUCT INFORMATION

<b>Packaging</b>	Sika® Fibermesh®-150 fibers are available in 1 kg bags. The bags are packed into cartons and palletized.
<b>Shelf life</b>	When stored in dry conditions shelf life is 5 years
<b>Storage conditions</b>	Sika® Fibermesh®-150 should be stored in a dry warehouse. Protect product from the direct sunlight and moist.
<b>Density</b>	0.91

## Dimensions

- **Fibre Length:** 12 mm
- **Diameter:** Graded 0.03 & 0.05 mm
- **Type:** Fine Monofilament
- **Absorption:** Nil
- **Electrical Conductivity:** Low
- **Acid & Salt Resistance:** High
- **Ignition Point:** 593°C (1100°F)
- **Thermal Conductivity:** Low

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## Melting point

162 °C (324 °F)

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## TECHNICAL INFORMATION

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### Resistance to alkalinity

Excellent

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## APPLICATION INFORMATION

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### Recommended dosage

The dosage of the Sika® Fibermesh®-150 will vary according to the type of application and performance requirements. Standard recommended dosage ratio of Sika® Fibermesh®-150 is between 0.5 - 0.9 kg/m<sup>3</sup> of concrete. Dosages outside the recommended dosage range can be used to meet project specific requirements. If this is the case please contact your Sika representative for technical support.

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### Dispensing

Sika® Fibermesh®-150 can be added directly to the concrete mixing system after the batching of the other ingredients and mixed for 4 to 5 minutes or 70 revolutions.

#### Application

The addition of Sika® Fibermesh®-150 at the normal recommended dosage rate does not require any mix design or application changes. The fiber concrete can be mixed, sprayed or placed using conventional equipment.

#### Tooling & Finishing

Sika® Fibermesh®-150 can be finished by most finishing techniques as indicated in ACI-302.

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## BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

## LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

## LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.



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